Date
Date

UNIT 1: WORKSHEET 10

Complete all work <u>on a separate sheet of paper</u>, make the graphs qualitative, and write the answers in

	the "Solution" box.			
	The problem	v vs t graph	Solution	
1.	A poorly tuned Yugo can accelerate from rest to a speed of 28 m/s in 20 s.	(+)	a)	
a)	What is the average acceleration of the car?		b)	
b)	What distance does it travel in this time?	- 407		
c)	What is the average velocity?	(-)	c)	
2	A. (
2.	At $t = 0$ a car has a speed of 30 m/s. After 6 s, its speed is 14 m/s.	(+)	a)	
a)	What is its average acceleration during this time			
	interval?	ד נ(s)	b)	
b)	What is the average			
	velocity?	(-)		
3.	A bear spies some honey and takes off from rest, accelerating at a rate of 2.0 m/s^2 .	(+) ≜	a)	
		ž 0 — — — — — — — — — — — — — — — — — —		
a)	If the honey is 16 m away, how fast will his snout be	ترج) t(s)	b)	
	going at the moment of		0)	
	ecstasy?			
b)	What is the average velocity?			
4.	A bus moving at			
	20 m/s (t = 0s) slows at a	(+)∱	a)	
	rate of 4 m/s each second.			
a)	How long does it take the bus to stop?		b)	
b)	How far does it travel while braking?	א ע(s)		
c)	What is the average velocity?	(-)	c)	

